

**POLYURETHANE DISPERSION (PUD) WITH IMPROVED  
ISOPROPANOL RESISTANCE, FLEXIBILITY AND SOFTNESS**

**ABSTRACT OF THE DISCLOSURE**

Isocyanate-functional polyurethane prepolymers and aqueous dispersions therefrom which are useful for the production of flat materials having excellent resistance to alcoholic solvents are described. The prepolymers are prepared by reacting:

- A) an isocyanate selected from the group consisting of
    - i) an aliphatic and/or a cycloaliphatic isocyanate,
    - ii) a mixture of an aromatic isocyanate and an aliphatic and/or a cycloaliphatic isocyanate,
  - B) a di- or polyhydroxy compound having a number average molecular weight of from 700 to about 16,000, and
  - C) optionally, a dihydroxy and/or polyhydroxyl compound having a number average molecular weight of less than 700,
- with the provisos that
- a) at least one of components A), B or C) has a functionality of more than 2 and
  - b) if both component A) and component B) are difunctional, component C) cannot be a trihydroxy component of the formula:



where R is a saturated straight chain or branched chain aliphatic group of from 2 to 8 carbon atoms.